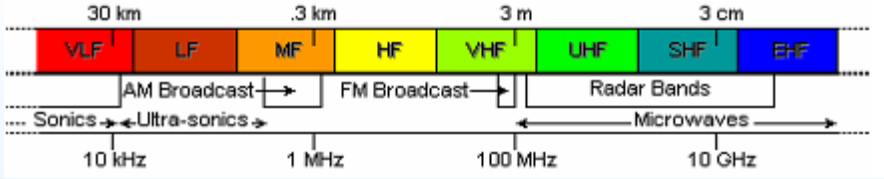
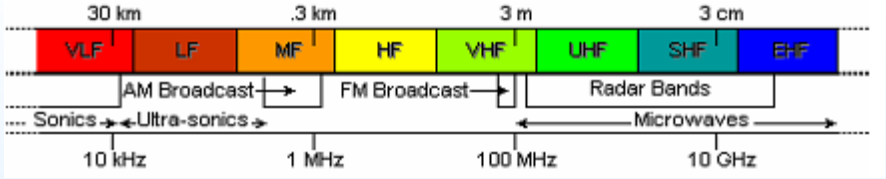


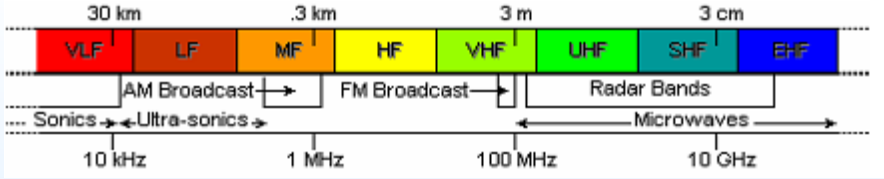
NTIA Briefing
EL-CID, FSMS & OSM-DD

DoD Spectrum Workshop
December 11, 2009



Agenda

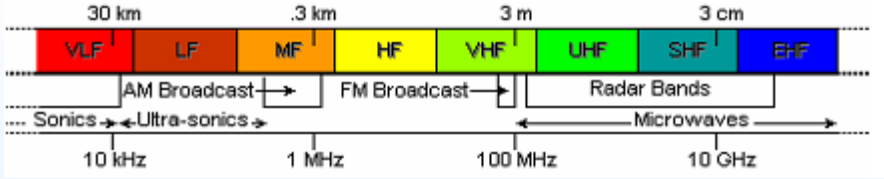
- Equipment Location-Certification Information Database (EL-CID)
- Federal Spectrum Management System (FSMS) & Office of Spectrum Management Data Dictionary (OSMDD)



Equipment Location – Certification Information Database (EI-CID)

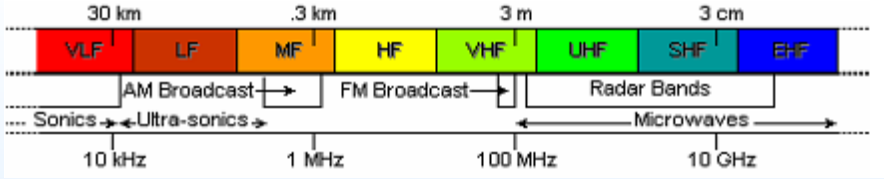
Status Update

- EL-CID Ver 5.1
- EL-CID Ver 6.0
- EL-CID Ver 7.0



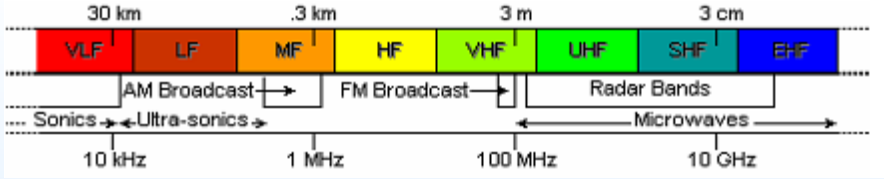
EL-CID Ver 5.1

- Current version certified for use
- NTIA required all certification requests be in Ver 5.1 format after November 1, 2009
- Approved certifications are posted to NTIA freqnet in a subfolder under the SPS folder



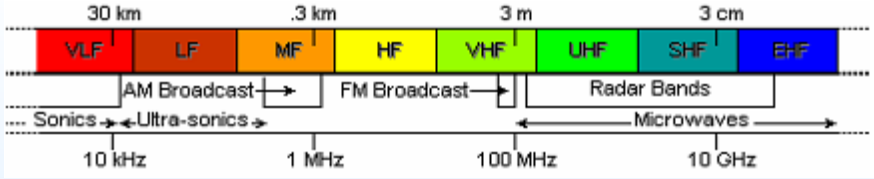
EL-CID Ver 6.0

- Ver 6.0 was distributed Oct 28,2009 to the DoD agencies to get a time estimate for certification
- All agencies must update at the same time
- Ver 6.0 will update previous version databases
- DoD enhancements included in Ver 6.0

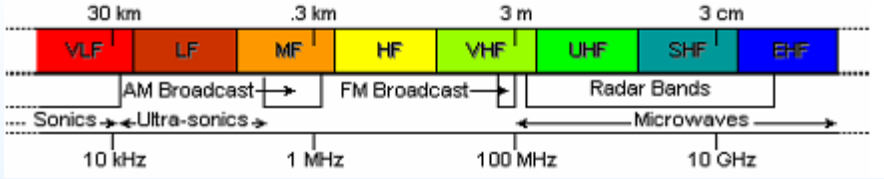


El-CID Ver 7.0

- Ver 7 is in development
- Working with the DoD to include DoD record approval and lockdown capability
- SPS Working Group 5 acts as CCB for agencies to advice NTIA on priority of program change requests



EL-CID Discussion


30 km
.3 km
3 m
3 cm
VLF
LF
MF
HF
VHF
UHF
SHF
EHF
AM Broadcast
FM Broadcast
Radar Bands
Sonics
Ultra-sonics
Microwaves
10 kHz
1 MHz
100 MHz
10 GHz

FSMS & OSMDD

The Challenge

Increased Demand

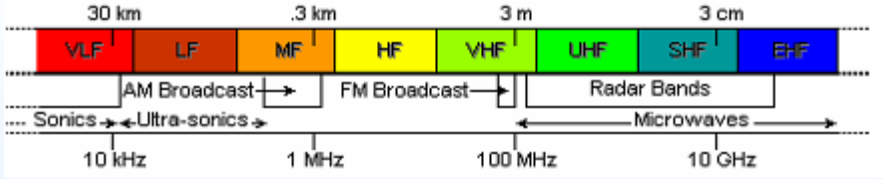
- Growing government agency requirements for spectrum use
- Expanding private demand

Reduced Availability

- Escalating use of spectrum

Evolving Agency Roles & Needs

- Evolving military and law enforcement roles



Modernize Spectrum Management through Improved Use of Information Technology

Paperless

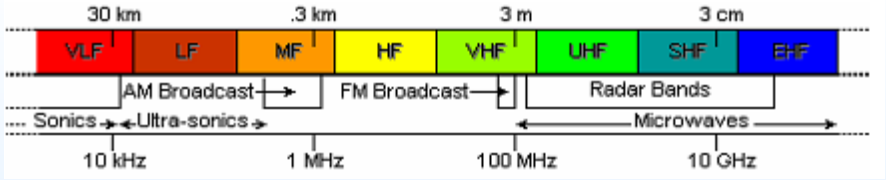
- Implement Paperless Spectrum Management Initiative Recommendations

Modernized

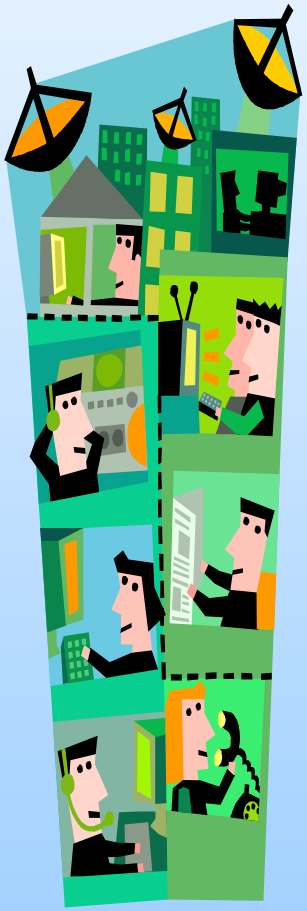
- Modernize Spectrum Management Systems
- Achieve Target Architecture
- Implement New Data Dictionary

Collaborative

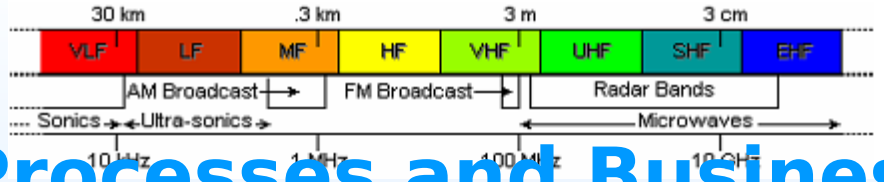
- Collaborate with DoD, FCC and all IRAC Agencies



Benefits of FSMS



- Reduced processing time
- Near real-time data & document access
- Application status monitoring
- Multiple access points (Internet, SIPRNet, dial-up)
- Assured data integrity
- Enhanced interference algorithms
- Expanded compliance check capabilities
- Standardized and improved user interface
- Data export capability for import to third-party tools
- Portal-based UI reducing deployment requirements
- Radio spectrum allocation planning and management support



IRAC Processes and Business Products

Frequency Assignment Subcommittee (FAS) Process

Prepare and Submit Frequency Proposal
Receive and Process Frequency Proposal Transactions
Vote on Frequency Proposal

Spectrum Planning Subcommittee (SPS) Process

Prepare and Submit Request for Spectrum Certification
Receive and Process Spectrum Certification Request

Space Systems Subcommittee (SSS) Process

Manage Satellites

Emergency Planning Subcommittee (EPS) Process

Manage Emergency Documents and Telecommunication Service Priority for Radiocommunications (TSP-R)

Qualify Equipment Process

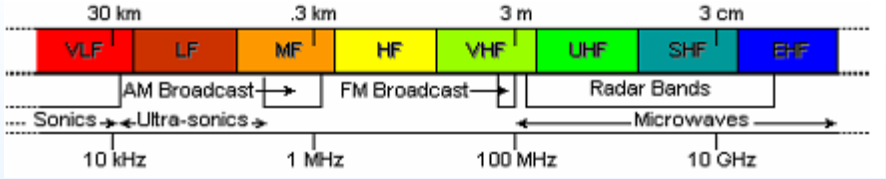
Populate Equipment Characteristics

Mission

OSM Data Dictionary (Pub8 Compliant)

- Frequency Assignment
- System Certification
- Registered Satellite
- TSP-R
- Qualified Equipment

Note: Mission information is shared information that is captured throughout the other processes.



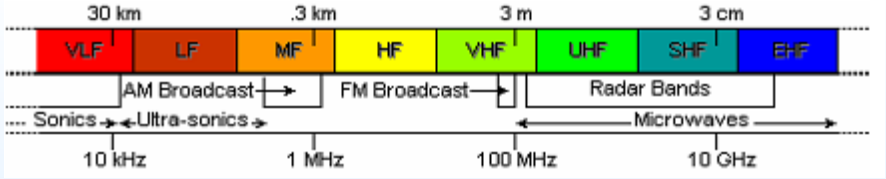
FSMS Concept of Operations

Service Oriented Architecture (SOA)

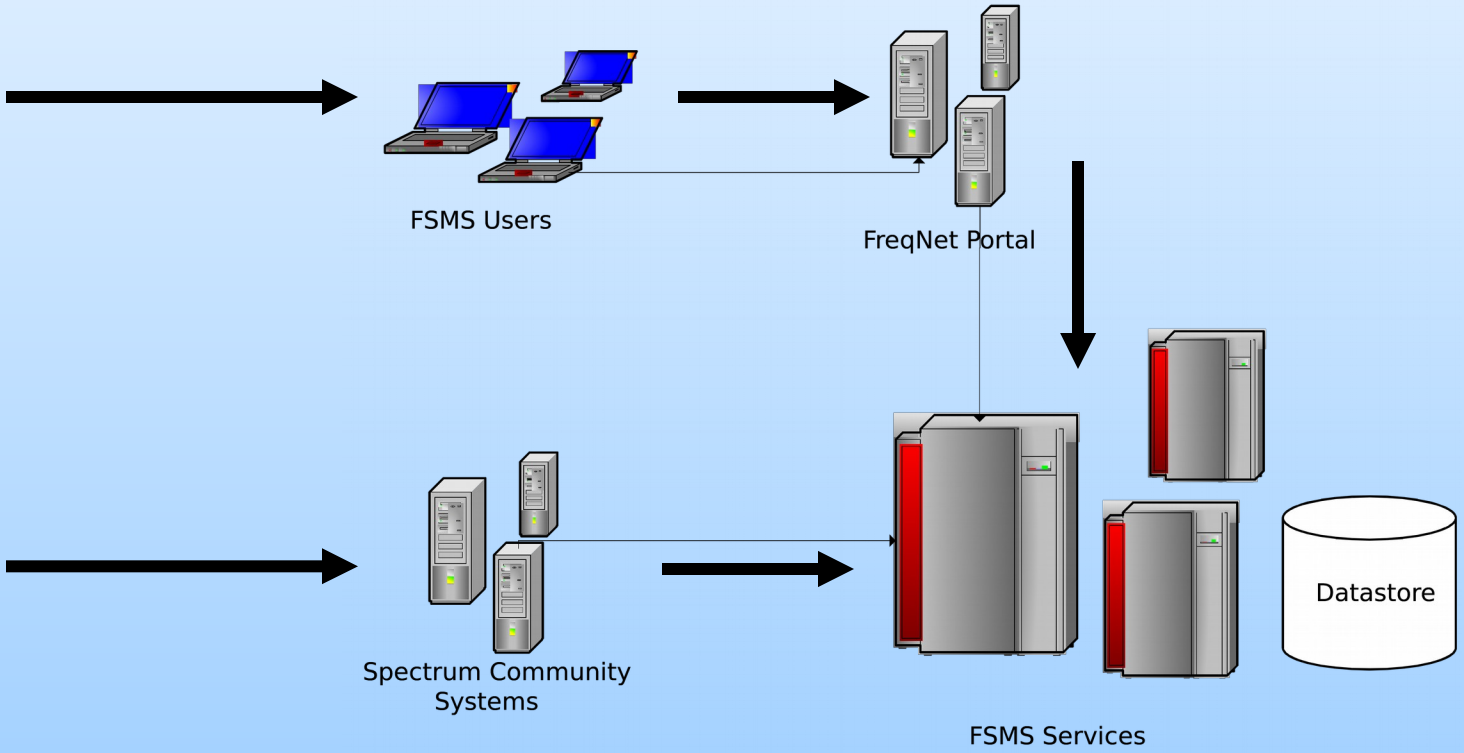
A service-based system grounded in a target SOA.

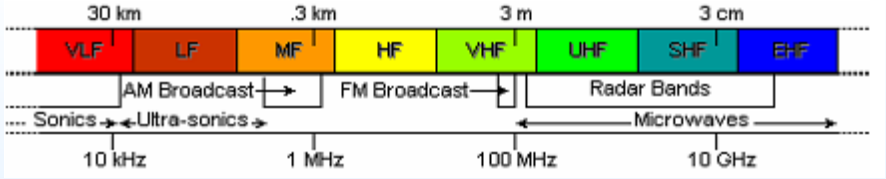
Accessible Portal Based System

The spectrum community will be able to access FSMS either via a portal-based interface or directly through their own automated systems.



FSMS SOA Target Architecture

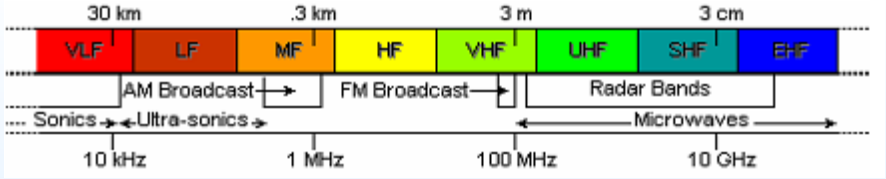


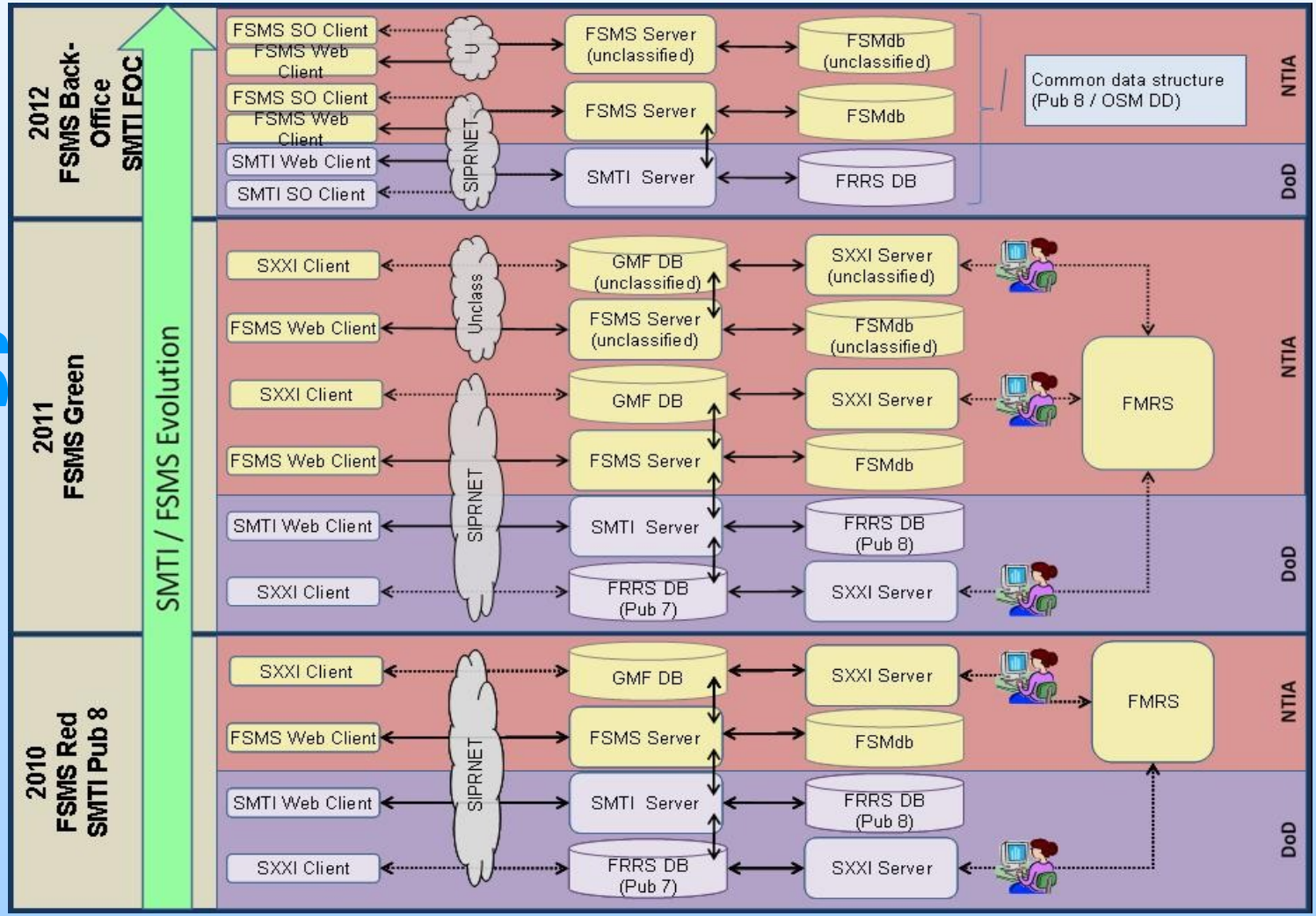


FSMS Release Strategy

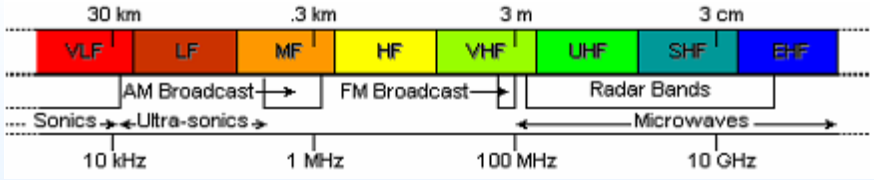
Red FY2010	Green FY2011	Back-Office FY2012	Full Capability FY2014
• Classified environment • Front-end assignment processing • Legacy system interfaces • Pub8 database • Engineering algorithms	• Unclassified environment • Classified/ unclassified data exchange • Legacy system interfaces	• Back-end assignment and certification processing • Legacy interfaces eliminated • Legacy systems retired	• Front-end certification processing • Full TSP-R processing

FSMS Transition Strategy





Note that for each FSMS release, NTIA maintains real-time redundancy between HCHB and COOP.



FSMS & OSM DD Discussion